

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application:

1. (Withdrawn) A system for editing, comparing, and resolving equations, comprising:
at least one teacher computer that implements a teacher equation editor application that generates a question description and generates at least one answer corresponding to the question description and including at least one of an equation and an expression;
at least one student computer that implements a student equation editor application that generates a response corresponding to the question description and including at least one of a response equation and a response expression;
at least one comparison device that compares the response with the answer and outputs a comparison result; and
a communications network operably connecting the teacher computer, the student computer, and the comparison device.
2. (Withdrawn) The system of claim 1 wherein the teacher computer generates the question via manual operator input.
3. (Canceled).
4. (Withdrawn) The system of claim 1 wherein the teacher computer generates the answer via manual operator input.
5. (Withdrawn) The system of claim 1 wherein the response is selectively rendered from a character syntax to a rendered expression.
6. (Withdrawn) The system of claim 1 wherein the comparison device is the teacher computer.
7. (Withdrawn) The system of claim 1 wherein the comparison result is transmitted as a learning reinforcement signal to at least one of the teacher computer and the student computer.

8-18. (Canceled).

19. (Withdrawn) The system of claim 1 wherein the student equation editor application comprises one or more program instructions for performing the steps of:
receiving a question description via the communications network;
displaying the question description on the display corresponding to the student computer; and
receiving one or more responses to the question description via the input device, wherein each response includes one or more of an equation or an expression.

20. (Withdrawn) The system of claim 19 wherein the input device for the student computer comprises a pointing device.

21. (Withdrawn) The system of claim 19 wherein the input device for the student computer comprises a keyboard.

22. (Withdrawn) The system of claim 19 wherein at least one response is received in a character syntax.

23. (Withdrawn) The system of claim 19 wherein at least one response is received in a rendered format.

24. (Withdrawn) The system of claim 19 wherein the student equation editor application further comprises one or more program instructions for transmitting at least one response to the teacher computer via the communications network.

25. (Withdrawn) The system of claim 24 wherein transmitting at least one response occurs at substantially the same time as the at least one response is received via the input device.

26. (Withdrawn) The system of claim 24 wherein the at least one response is transmitted in a character syntax.

27. (Withdrawn) The system of claim 19 wherein the student equation editor application further comprises one or more program instructions for performing the steps of: receiving one or more answers corresponding to the question description via the communications network; and comparing each response with the one or more answers corresponding to the question description.

28. (Withdrawn) The system of claim 27 wherein the student equation editor application further comprises one or more program instructions for performing the steps of: generating at least one learning reinforcement signal; and displaying the at least one learning reinforcement signal on the display corresponding to the student computer display.

29. (Withdrawn) The system of claim 28 wherein generating at least one reinforcement signal occurs at substantially the same time as at least one response to the question description is received.

30. (Withdrawn) The system of claim 19 wherein the student equation editor application further comprises one or more program instructions for performing the steps of: receiving at least one learning reinforcement signal from the teacher computer via the communications network; and displaying the at least one learning reinforcement signal on the display corresponding to the student computer.

31. (Withdrawn) The system of claim 1 wherein the student equation editor application comprises a web browser application.

32. (Withdrawn) A method for editing, comparing, and resolving equations, comprising: operably interconnecting a communications network, a teacher computer, a student computer, and a comparison device;

implementing with the teacher computer a teacher equation editor application that generates a question description and generates at least one answer corresponding to the question description and including at least one of an equation and an expression;

implementing with the student computer a student equation editor application that generates a response corresponding to the question description and including at least one of a response equation and a response expression;

using the comparison device to compare the response with the answer and output a comparison result.

33. (Withdrawn) The method of claim 32 further comprising generating the question via manual operator input.

34. (Canceled).

35. (Withdrawn) The method of claim 32 further comprising generating the answer via manual operator input.

36. (Withdrawn) The method of claim 32 further comprising selectively rendering the response from a character syntax to a rendered expression.

37. (Withdrawn) The method of claim 32 further comprising transmitting the comparison result as a learning reinforcement signal to at least one of the teacher computer and the student computer.

38. (Withdrawn) The computer program product of claim 61 further comprising code means for generating the question via manual operator input.

39. (Withdrawn) The computer program product of claim 61 further comprising code means for generating the answer via manual operator input.

40. (Withdrawn) The computer program product of claim 61 further comprising code means for selectively rendering the response from a character syntax to a rendered expression.

41. (Withdrawn) The computer program product of claim 61 further comprising code means for transmitting the comparison result as a learning reinforcement signal to at least one of the teacher computer and the student computer.

42-50. (Canceled).

51. (Withdrawn) The system of claim 32 wherein the student equation editor application comprises one or more program instructions for performing the steps of:
receiving a question description via the communications network;
displaying the question description on the display corresponding to the student computer; and
receiving one or more responses to the question description via the input device, wherein each response includes one or more of an equation and an expression.

52. (Withdrawn) The system of claim 51 wherein the input device for the student computer comprises a pointing device.

53. (Withdrawn) The system of claim 51 wherein the input device for the student computer comprises a keyboard.

54. (Withdrawn) The system of claim 51 wherein at least one response is received in a character syntax.

55. (Withdrawn) The system of claim 51 wherein at least one response is received in a rendered format.

56. (Withdrawn) The system of claim 51 wherein the student equation editor application further comprises one or more program instructions for transmitting at least one response to the comparison device via the communications network.

57. (Withdrawn) The system of claim 56 wherein transmitting at least one response occurs at substantially the same time as the at least one response is received via the input device.

58. (Withdrawn) The system of claim 56 wherein the at least one response is transmitted in a character syntax.

59. (Withdrawn) The system of claim 51 wherein the student equation editor application further comprises one or more program instructions for receiving at least one learning reinforcement signal from the comparison device via the communications network.

60. (Withdrawn) The system of claim 32 wherein the student equation editor application comprises a web browser application.

61. (Withdrawn) A computer program product for editing, comparing, and resolving equations, comprising a computer-readable storage medium containing program instructions tangibly embodied thereon as code means for:

operably interconnecting a communications network, a teacher computer, a student computer, and a comparison device;

implementing with the teacher computer a teacher equation editor application that generates a question description and generates at least one answer corresponding to the question description and including at least one of an equation and an expression;

implementing with the student computer a student equation editor application that generates a response corresponding to the question description and including at least one of a response equation and a response expression;

using the comparison device to compare the response with the answer and output a comparison result.

62-63. (Canceled).

64. (Withdrawn) A method of editing, comparing, and resolving equations comprising:
receiving a question description on a student computer system from a teacher computer system;
displaying the question description;
receiving at least one response to the question description, wherein each response comprises one
or more of an equation and an expression; and
transmitting the at least one response to the teacher computer system.

65. (Withdrawn) The method of claim 64, further comprising:
receiving at least one learning reinforcement from the teacher computer system.

66. (New) A system for editing, comparing, and resolving equations comprising:
a communications network;
at least one teacher computer; and
a plurality of student computers,
wherein each student computer is operably connected to each teacher computer via the
communications network,
wherein each teacher computer includes an input device, a display, and a computer-readable
storage medium containing program instructions for implementing a teacher equation
editor application comprising one or more program instructions for performing the steps
of:
receiving a question description via the input device;
storing the question description;
receiving one or more answers corresponding to the question description via the input device,
wherein each answer includes one or more of an equation and an expression;
storing the one or more answers;
receiving a response from one of the plurality of student computers via the communications
network in a character syntax;
comparing the response with the one or more answers corresponding to the question description
by rendering the response from the character syntax into a rendered expression; and
displaying the rendered expression on the display of the teacher computer.

67. (New) A system for editing, comparing, and resolving equations comprising:

a communications network;

at least one teacher computer;

a plurality of student computers; and

a comparison device,

wherein each student computer, each teacher computer and the comparison device are operably interconnected via the communications network,

wherein each teacher computer includes an input device, a display, and a computer-readable storage medium containing program instructions for implementing a teacher equation editor application comprising one or more program instructions for performing the steps of:

receiving a question description via the input device;

storing the question description;

receiving one or more answers corresponding to the question description via the input device, wherein each answer includes one or more of an equation and an expression;

storing the one or more answers;

receiving the response;

rendering the response into a rendered expression; and

displaying the rendered expression on the display of the teacher computer,

wherein the comparison device includes a computer-readable storage medium containing program instructions for implementing a comparison application comprising one or more program instructions for performing the steps of:

receiving a response from one of the plurality of student computers via the communications network; and

comparing the response with the one or more answers corresponding to the question description.